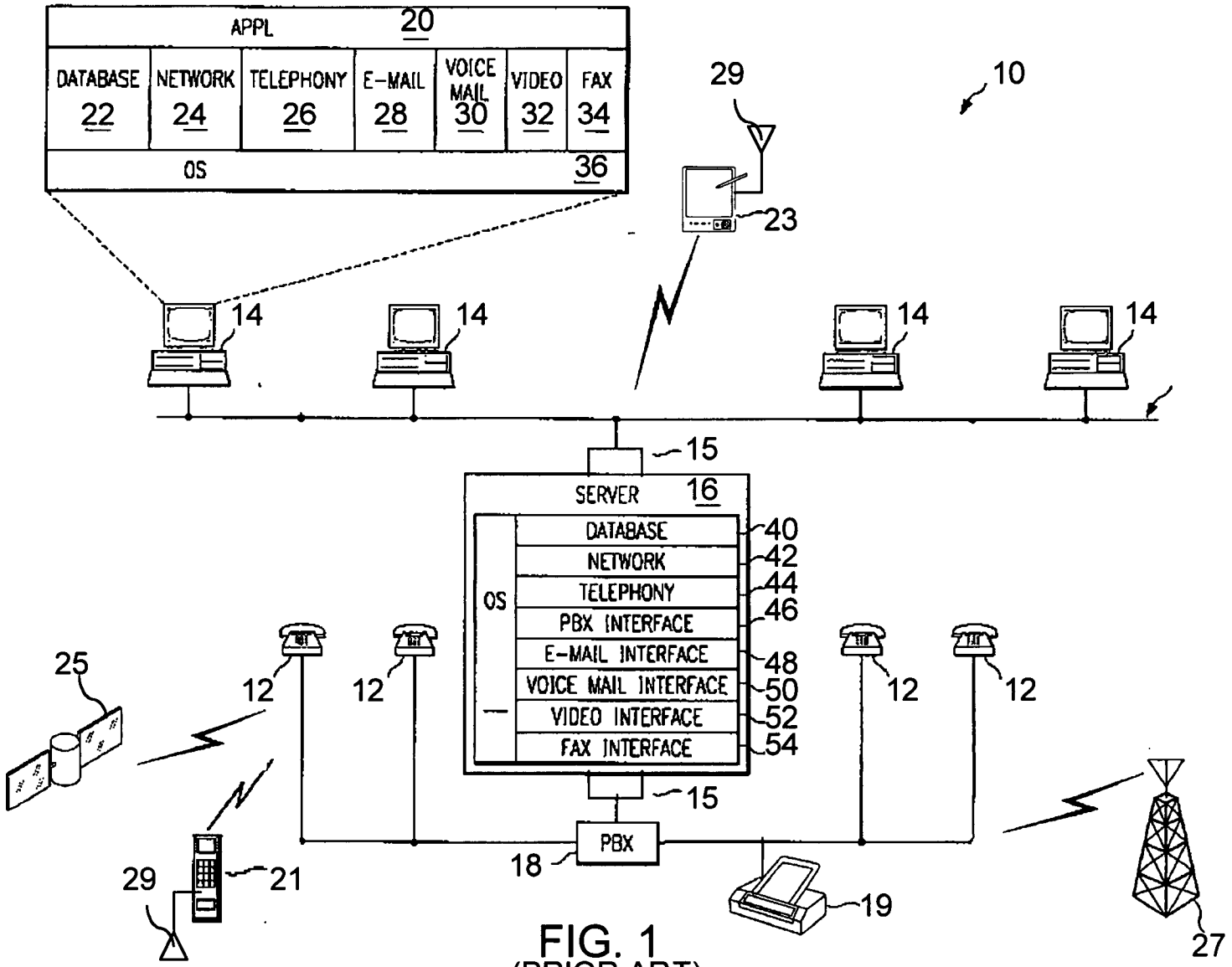
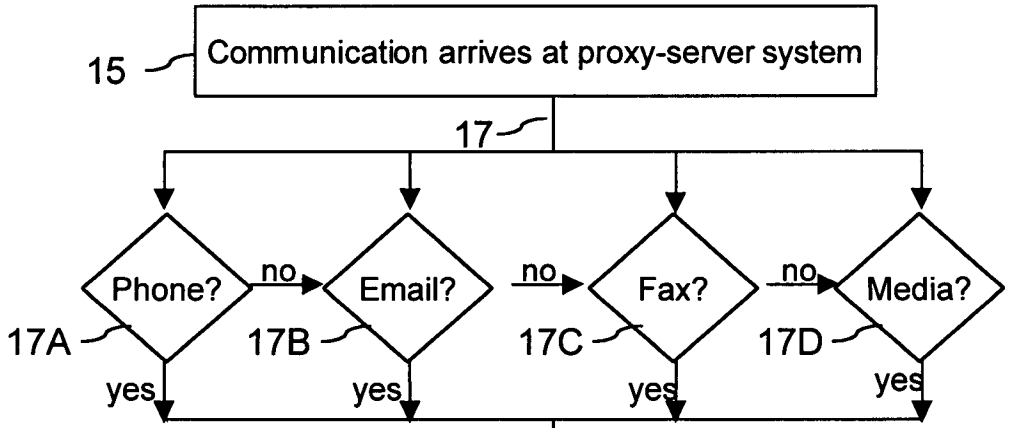


FIG. 1
(PRIOR ART)



Pr ferred embodiments:

IMAP4 server

CTI universal communication system

FIG. 2

Sample Log File Information and Normalized Time by Message 31

	31A Date	31B Time	31C Recipient	31D Manner	31E Sender	31F Subject Key Words	31G Message Type	31H Attachment Type	31I Message Size (kb)	31J Attachment Size (kb)	31K Message Word Count	31L Attachment Word Count	31M Normalized Duration (min)
	17Jan00	8:34 EST	pulrich@		porondo@	patent filing	email	MS Word	7	122	84	3050	15.9
	17Jan00	21:09 EST	pulrich@		kulrich@	personal	email	n/a	11	n/a	132	n/a	0.8
	17Jan00	21:35 EST	pulrich@		jayang@	business expense	email	MS Excel	42	103	420	n/a	6.4
			porondo@				"	"	42	103	420	"	6.4
	18Jan00	14:31 EST	porondo@		pulrich@	prototype	email	n/a	3	n/a	48	n/a	0.3
			jayang@	cc			"	"	3	"	48	"	0.3
			kulrich@	bcc			"	"	3	"	48	"	0.3
33	18Jan00	14:52 EST	pulrich@		jayang@	re: prototype	fax	n/a	132	n/a	550	n/a	2.9
			porondo@	cc			"	"	132	"	550	"	2.9
	20Jan00	15:03 EST	lawyer@		pulrich@	patent filing	email	MS Word	15	356	135	7120	36.5
			porondo@	cc			"	"	15	356	135	7120	36.5
			jayang@	cc			"	"	15	356	135	7120	36.5
			kulrich@	bcc			"	"	15	356	135	7120	36.5
	21Jan00	11:05 EST	pulrich@		lawyer@	patent filing	email	wav file	10	2200	120	n/a	5.2
	21Jan00	11:25 EST	porondo@	fw	pulrich@	fw:patent filing	"	"	11	2200	120	n/a	5.2
			jayang@	fw			"	"	11	2200	120	n/a	5.2
			kulrich@	fw			"	"	11	2200	120	n/a	5.2
35	21Jan00	18:35 EST	kulrich@		pulrich@	personal	phone	n/a	n/a	n/a	n/a	n/a	1.6

Total Duration (min) = 204.6 31N

FIG. 3A

Minutes of Time

41

41A **By Subject:** **patent filing**

47 31C 45A

by\of	pulrich@	porondo@	jayang@	kulrich@	lawyer@	subtotals	% of total
pulrich@	n/a	42.0	42.0	42.0	36.5	**162.5**	85.8%
porondo@	15.9	n/a	0.0	0.0	0.0	**15.9**	8.4%
jayang@	2.9	2.9	n/a	0.0	0.0	**5.8**	3.1%
kulrich@	0.0	0.0	0.0	n/a	0.0	**0.0**	0.0%
lawyer@	5.2	0.0	0.0	0.0	n/a	**5.2**	2.7%
subtotals	**24.0**	**44.9**	**42.0**	**42.0**	**36.5**		**189.4** demanded
%of total	12.7%	23.7%	22.2%	22.2%	19.3%	**189.4**	

31E

45A

supplied

43A

41B **By Date:** **17Jan00** **(all subjects)**

31C 45B

by\of	pulrich@	porondo@	jayang@	kulrich@	lawyer@	subtotals	% of total
pulrich@	n/a	0.0	0.0	0.0	0.0	**0.0**	0.0%
porondo@	15.9	n/a	0.0	0.0	0.0	**15.9**	53.9%
jayang@	6.4	6.4	n/a	0.0	0.0	**12.8**	43.6%
kulrich@	0.8	0.0	0.0	n/a	0.0	**0.8**	2.6%
lawyer@	0.0	0.0	0.0	0.0	n/a	**0.0**	0.0%
subtotals	**23.1**	**6.4**	**0.0**	**0.0**	**0.0**		**29.5** demanded
%of total	78.2%	21.8%	0.0%	0.0%	0.0%	**29.5**	

31E

45B

supplied

43B

41C **By Period:** **17Jan00-21Jan00** **(all subjects)**

31C 45C

by\of	pulrich@	porondo@	jayang@	kulrich@	lawyer@	subtotals	% of total
pulrich@	n/a	42.0	42.0	43.6	36.5	**148.5**	80.2%
porondo@	15.9	n/a	0.0	0.0	0.0	**15.9**	7.8%
jayang@	9.3	9.3	n/a	0.0	0.0	**18.6**	9.1%
kulrich@	0.8	0.0	0.0	n/a	0.0	**0.8**	0.4%
lawyer@	5.2	0.0	0.0	0.0	n/a	**20.8**	2.5%
subtotals	**31.2**	**51.3**	**42.0**	**43.6**	**36.5**		**204.6** demanded
%of total	15.2%	25.1%	20.5%	21.3%	17.8%	**204.6**	

31E

45C

supplied

43C

FIG. 3B

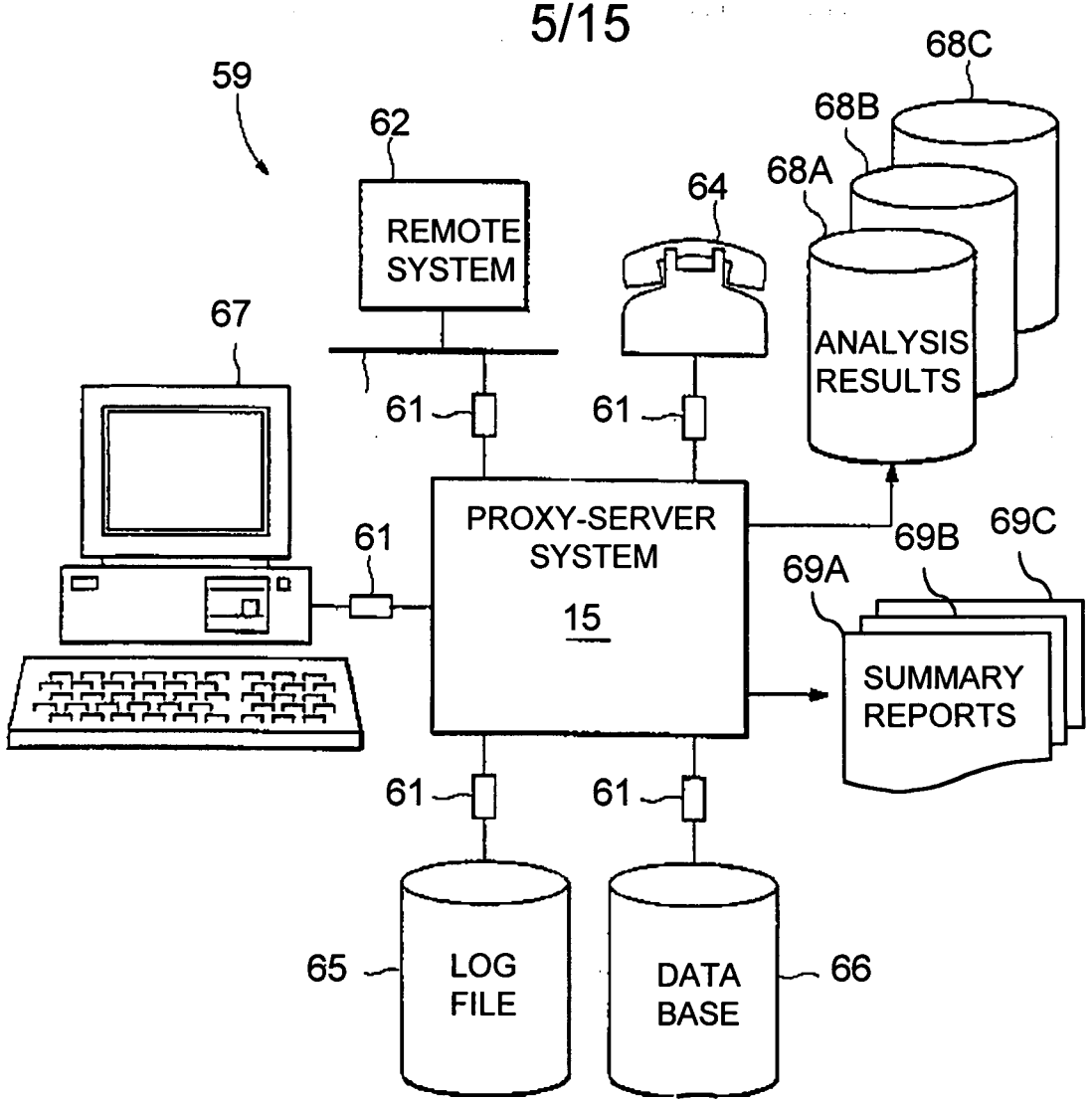


FIG. 4
(PRIOR ART)

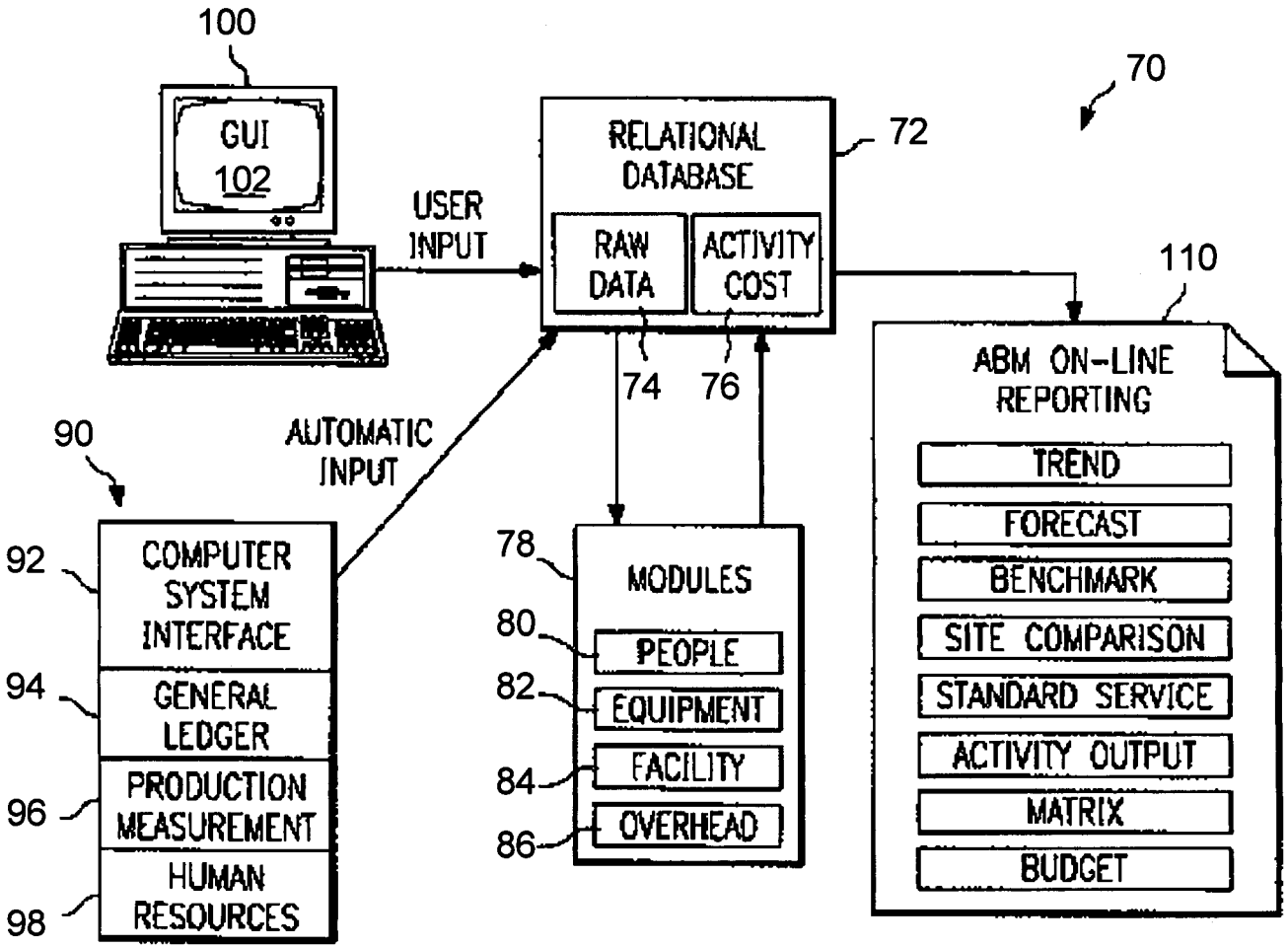


FIG. 5
(PRIOR ART)

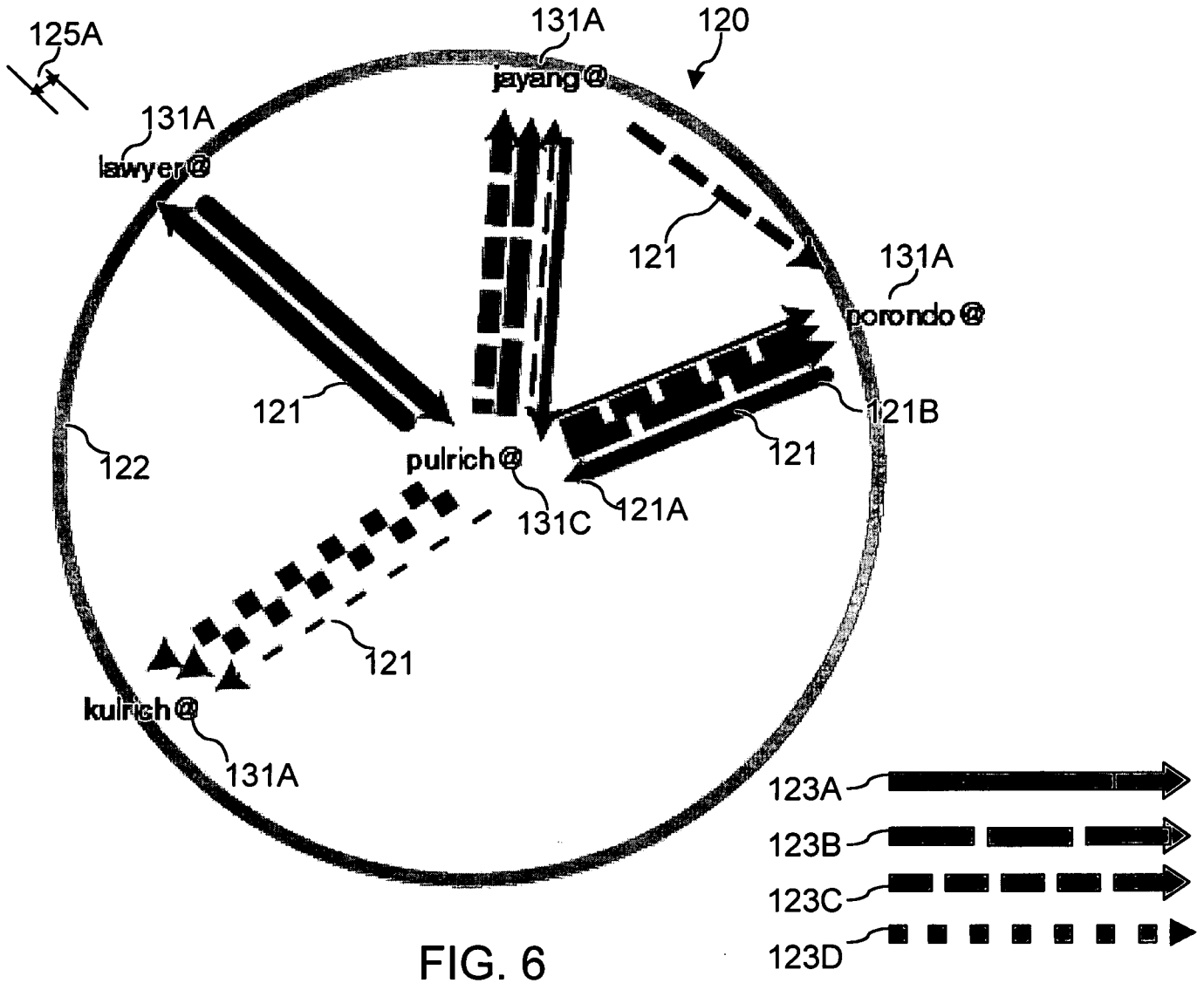

125A
131A
120
jayang@
131A
lawyer@
121
131A
porondo@
121
121B
122
pulrich@
121
131C
121A
121
kulrich@
131A
123A
123B
123C
123D

FIG. 6

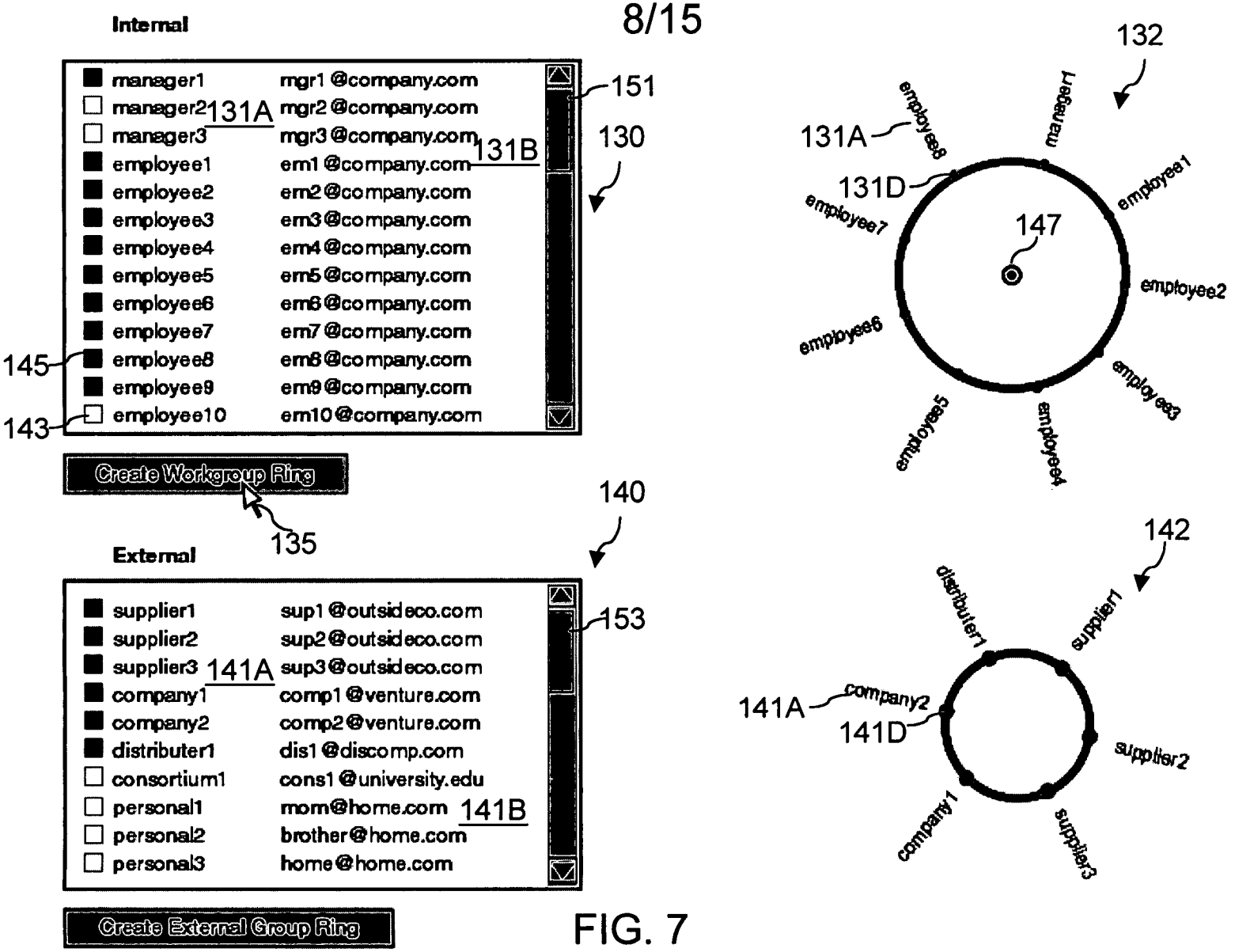

Internal
manager1 mgr1@company.com
manager2 mgr2@company.com
manager3 mgr3@company.com
employee1 em1@company.com
employee2 em2@company.com
employee3 em3@company.com
employee4 em4@company.com
employee5 em5@company.com
employee6 em6@company.com
employee7 em7@company.com
employee8 em8@company.com
employee9 em9@company.com
employee10 em10@company.com
131A
131B
151
130
145
143
Create Workgroup Ring
135
140
External
supplier1 sup1@outsideco.com
supplier2 sup2@outsideco.com
supplier3 sup3@outsideco.com
company1 comp1@venture.com
company2 comp2@venture.com
distributer1 dis1@discomp.com
consortium1 cons1@university.edu
personal1 mom@home.com
personal2 brother@home.com
personal3 home@home.com
141A
141B
153
Create External Group Ring
132
131A
131D
147
manager1
employee1
employee2
employee3
employee4
employee5
employee6
employee7
employee8
142
141A
141D
distributer1
supplier1
supplier2
supplier3
company1
company2

FIG. 7

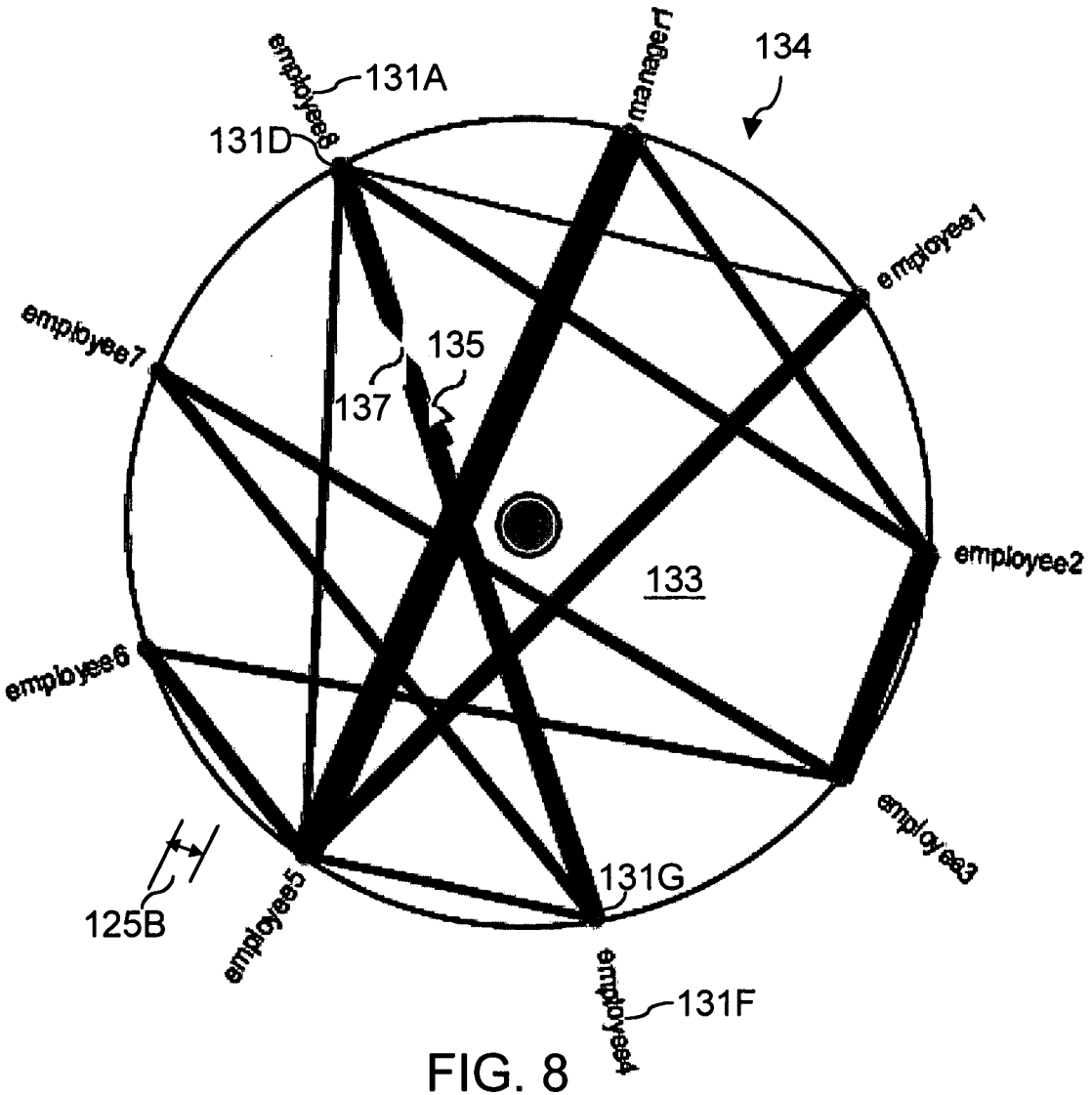
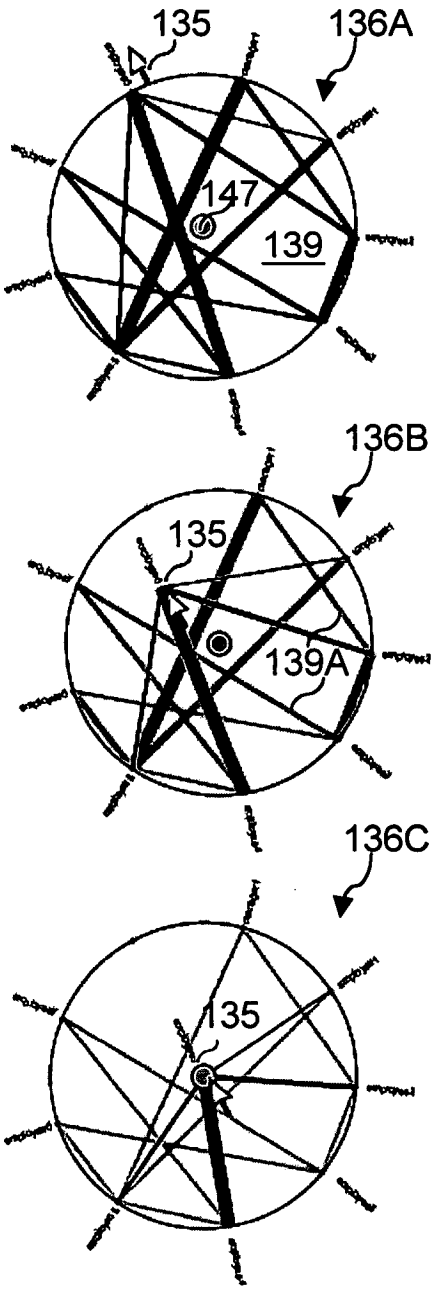

manager1
134
131A
employee8
131D
employee1
employee7
135
137
133
employee2
employee6
employee3
125B
employee5
131G
employee4
131F

FIG. 8


135
136A
147
139
136B
135
139A
136C
135

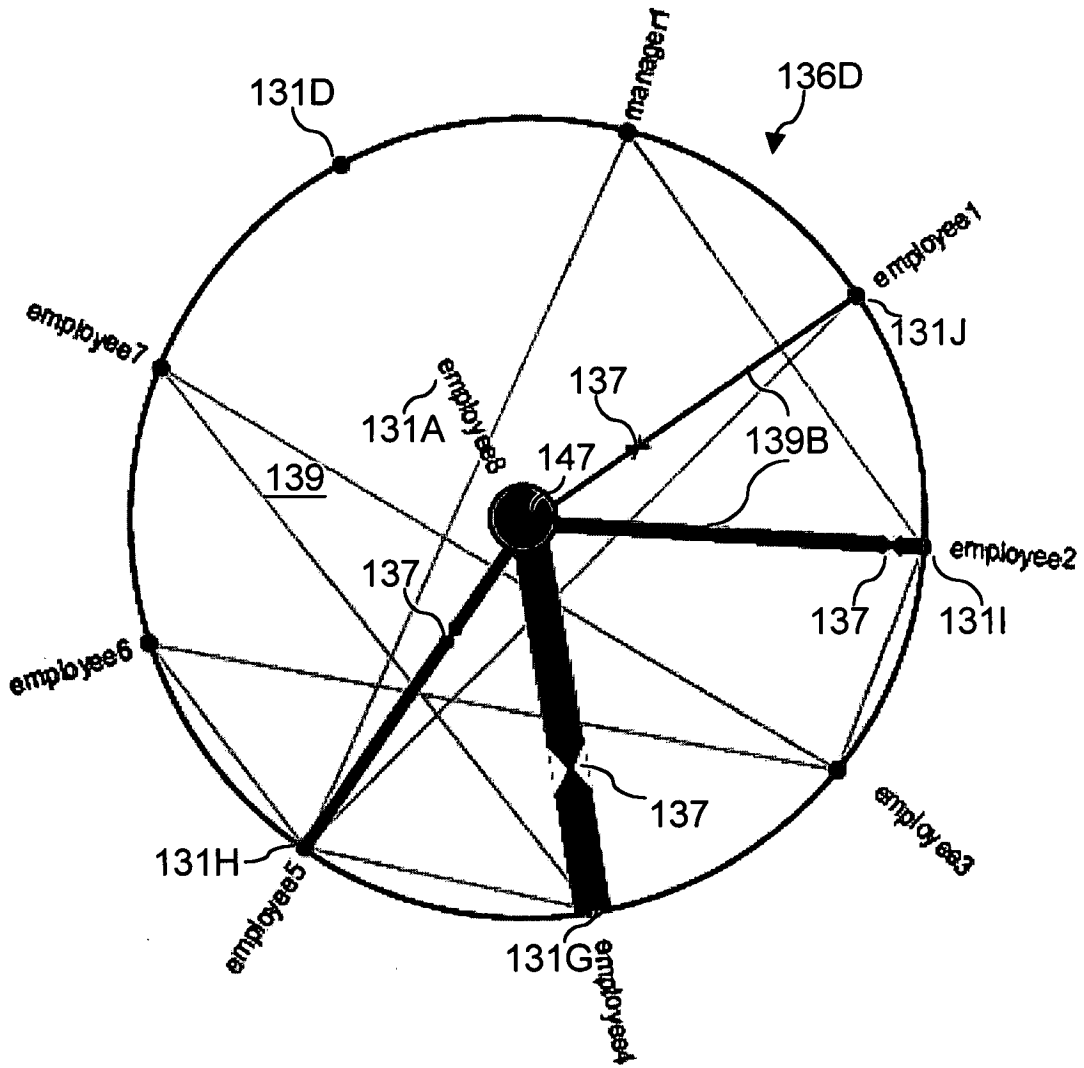

131D
manager
136D
employee1
131J
employee7
131A
employee8
137
139B
147
139
employee2
137
137
131I
employee6
137
employee3
131H
employee5
131G
employee4

FIG. 9

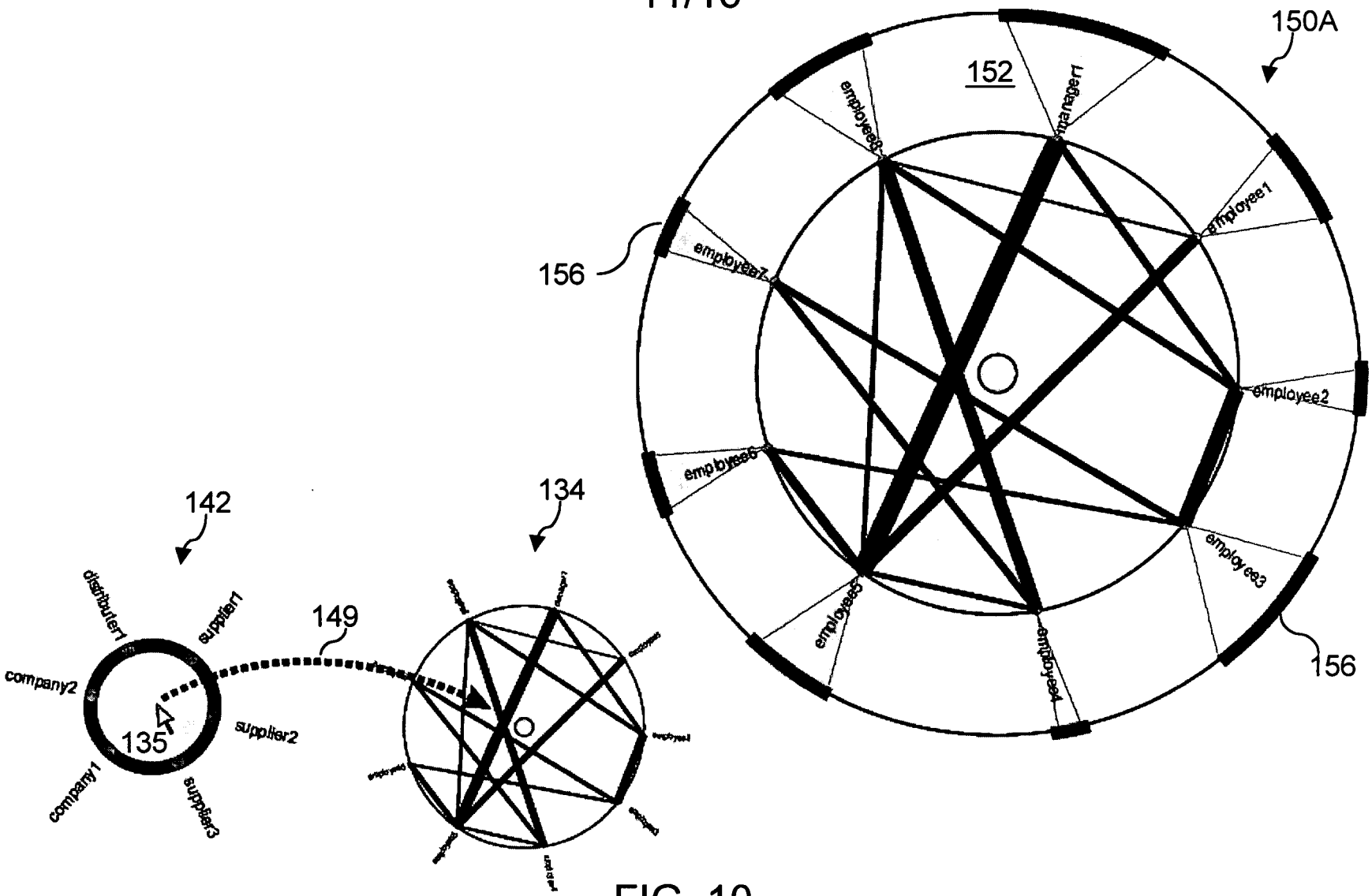

150A
152
manager1
employee1
employee2
employee3
employee4
employee5
employee6
employee7
156
156
134
142
149
distributer1
supplier1
company2
supplier2
company1
supplier3
135

FIG. 10

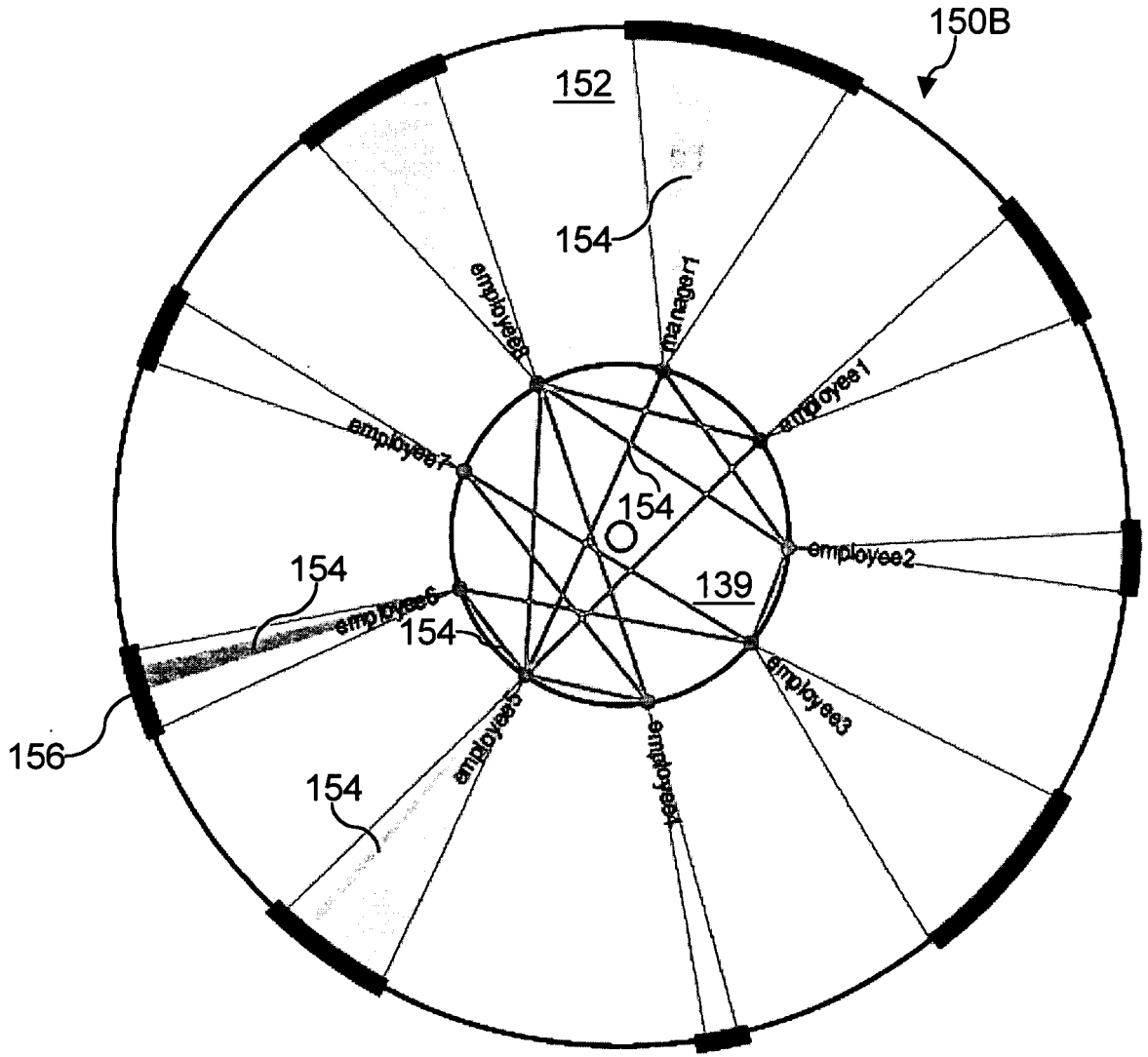

150B
152
154
manager1
employee1
employee2
employee3
employee4
employee5
employee6
employee7
employee8
154
139
154
154
156
154

FIG. 11

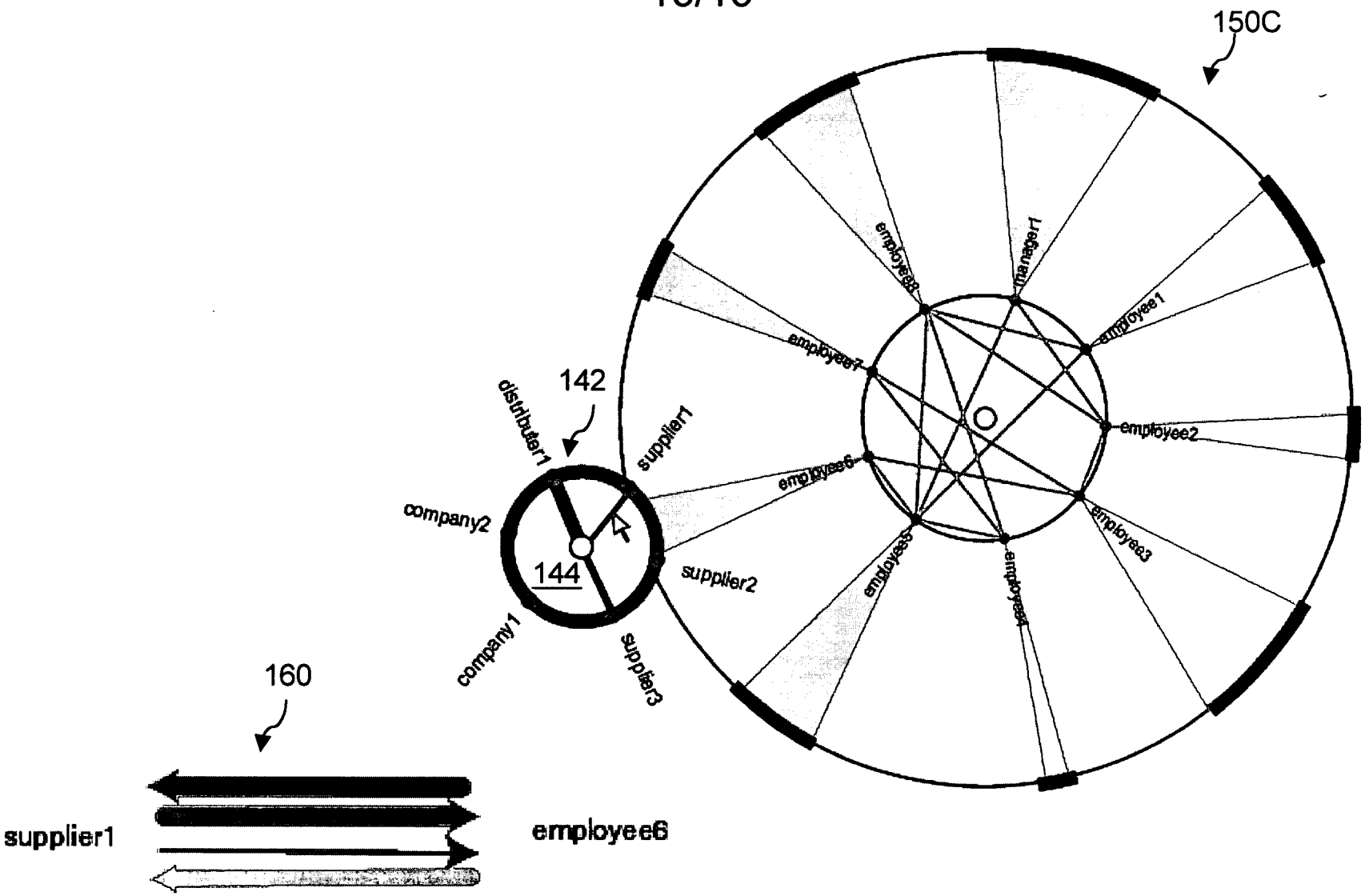

150C
142
distributer1
supplier1
company2
144
supplier2
company1
supplier3
employee8
employee1
employee7
employee2
employee6
employee3
employee5
employee4
160
supplier1
employee6

FIG. 12

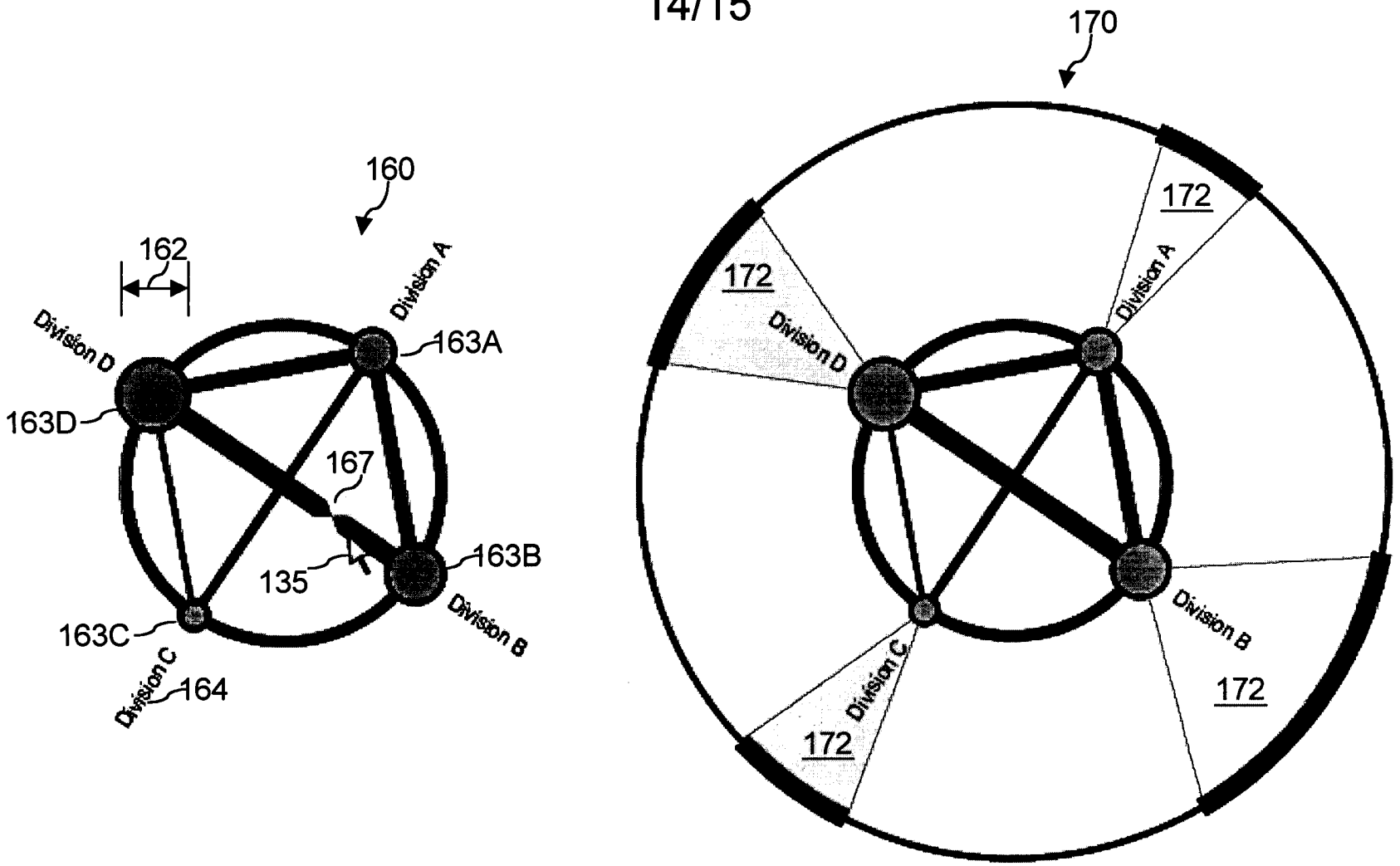

160
162
Division A
Division D
163A
163D
167
135
163B
Division B
163C
Division C
164
170
172
172
Division A
Division D
Division B
Division C
172
172

FIG. 13

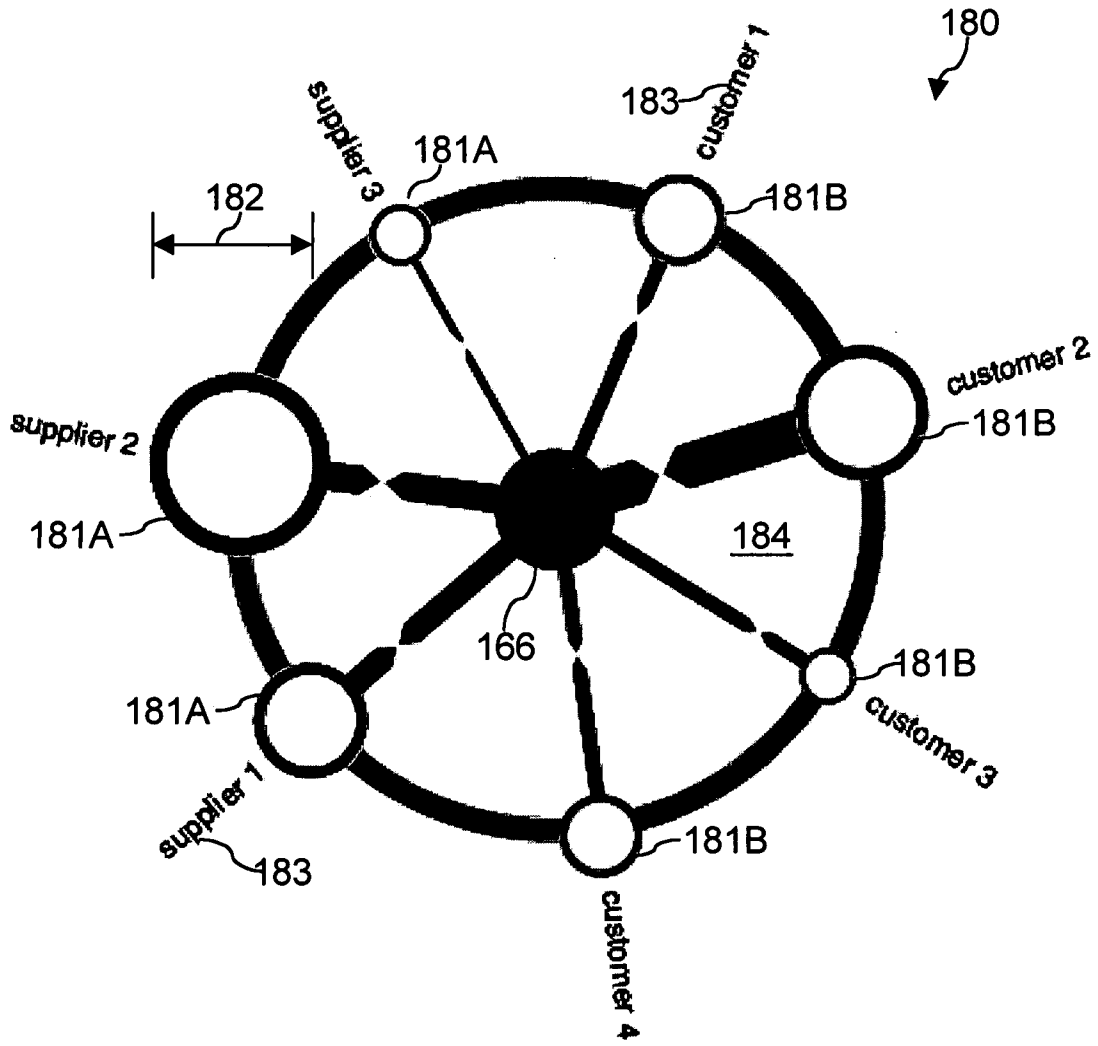

180
183
customer 1
supplier 3
181A
182
181B
customer 2
supplier 2
181B
181A
184
166
181B
181A
customer 3
supplier 1
183
181B
customer 4

FIG. 14